

ABSTRACT OF THE DISCLOSURE

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When information to be recorded is encrypted by using an encryption key, an encryption key based on inherent information inherent in a recording medium is generated. The information to be recorded on the recording medium is encrypted based on the encryption key. The inherent information inherent in the recording medium is a specific information on a disk. When an encrypted information recorded on a recording medium is decrypted, there are reproduced from a recording medium a first file storing information encrypted by using an encryption key generated based on a random data to be inserted into a predetermined portion of the encrypted information to be recorded on a recording medium and a second file storing data indicative of a predetermined portion of the random data to be inserted into a predetermined portion of the encrypted information. The random data is detected from the encrypted information stored the reproduced first file based on the data stored in the reproduced second file and indicating the predetermined portion of the random data. A decryption key is generated from the detected random data. The encrypted information of the reproduced first file is decrypted by using the decryption key.